## NVIRONMENTAL BORING LC

Boring No. B12

PROJECT: HPI Fortuna Shell

BORING LOCATION: ALLEY WEST OF 8TH STREET

DRILLING METHOD: GEOPROBE

DRILLER: LAKE'S

**DATE:** 9/30/2004

**PROJECT NO.:** 4563.01

**ELEVATION:** 

LOGGED BY: JMW

DEPTH TO WATER: INITIAL 

□ : COMPLETION 

□ :

SITE GEOLOGY: FLUVIAL TERRACE AND COLLUVIAL FAN DEPOSITS

VATION/ EPTH	SOIL SYMBOLS, SAMPLERS AND TEST DATA	uscs	Description	P.I.D. ppm	Hanb resul
- O		FILL	ROAD BASE; light brown, medium dense, dry to moist; 15% silt, no plasticity, 60% well graded sand, 25% well graded gravel. No hydrocarbon odor or staining.	,	
- 2.5		SM-ML	SILT WITH SAND; light gray brown, soft to firm, moist; 10% clay, 50% silt, medium plasticity, 40% fine sand. No hydrocarbon odor or staining.		
<b>-</b> 5				1 .	
- - 7.5 - -					
10					
12.5		ML SW-SM	SILT WITH GRAVEL; dark brown, firm, wet; 25% clay, 60% silt, medium plasticity, 15% fine to medium subrounded to rounded gravel. No hydrocarbon odor or staining.  WELL GRADED SAND WITH SILT AND GRAVEL; tan with gray,		
- - - 15		0 v v - 0 ivi	medium dense, moist; 5% clay, 20% silt, no plasticity, 50% well graded sand, 25% fine subrounded to rounded gravel. No hydrocarbon odor or staining. Managanese nodules present.		
- - - 17.5		SW	WELL GRADED SAND WITH GRAVEL; light to dark brown, medium dense, moist; 15% silt, no plasticity, 60% well graded sand, 25% well graded subrounded to rounded gravel. No hydrocarbon odor		
-		SM	or staining.  SILTY SAND; tan, medium dense, moist; 20% silt, no plasticity, 80% fine sand. No hydrocarbon odor or staining.		

Figure	



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DEPTH TO WATER: INITIAL ♀ : COMPLETION \(\frac{\pi}{2}\): SITE GEOLOGY: FLUVIAL TERRACE AND COLLUVIAL FAN DEPOSITS

SM SILTY SAND; tan with red, medium dense, moist; 5% clay, 25% silt, low to medium plasticity, 70% fine to medium sand. No hydrocarbon odor or staining, iron statining present.  WELL GRADED SAND WITH SILT AND GRAVEL; tan with red, medium dense, moist to wet, 5% clay, 15% silt, low plasticity, 60% well graded sand, 20% fine to medium subrounded to rounded gravel. No hydrocarbon odor or staining.  SILTY SAND; tan, medium dense, moist; 5% clay, 25% silt, 70% fine sand. No hydrocarbon odor or staining.  SILTY SAND; ton, medium dense, moist to wet; 5% clay, 15% silt, low plasticity, 70% fine to medium sand, 10% fine to medium gravel. No hydrocarbon odor or staining.  HALT AT 24 FEET BGS IN SAME.	ELEVATION/	SOIL SYMBOLS, SAMPLERS	uscs	Description	P.I.D.	Hanby result
SW-SM SW-SW SW-SM SW-SW SW-SM SW-SM SW-SW SW SW-SW SW SW SW-SW SW S	DEPTH	AND TEST DATA			ppm	resuit
SM SILTY SAND; tan, medium dense, moist; 5% clay, 25% silt, 70% fine sand. No hydrocarbon odor or staining.  SILTY SAND; red brown, medium dense, moist to wet; 5% clay, 15% silt, low plasticity, 70% fine to medium gravel. No hydrocarbon odor or staining.  HALT AT 24 FEET BGS IN SAME.	- 20 - -			low to medium plasticity, 70% fine to medium sand. No hydrocarbon odor or staining, iron staining present.  WELL GRADED SAND WITH SILT AND GRAVEL; tan with red, medium dense, moist to wet; 5% clay, 15% silt, low plasticity, 60% well graded sand, 20% fine to medium subrounded to rounded gravel. No		
SILTY SAND; red brown, medium dense, moist to wet; 5% clay, 15% silt, low plasticity, 70% fine to medium sand, 10% fine to medium gravel. No hydrocarbon odor or staining.  HALT AT 24 FEET BGS IN SAME.  27.5	- 22.5		SM	SILTY SAND; tan, medium dense, moist; 5% clay, 25% silt, 70% fine		
	-			SILTY SAND; red brown, medium dense, moist to wet; 5% clay, 15% silt, low plasticity, 70% fine to medium sand, 10% fine to medium gravel. No hydrocarbon odor or staining.		
- 30 - 30 - 32.5 - 35	25					
- 30 - 30 - 32.5 - 35	-					
- 30 - 30 - 32.5 - 35	-					
- 30 - 30 - 32.5 - 35	-					
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37.5	_					
	- 37.5	l				

Figure	
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